

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085556 A1

- (51) International Patent Classification⁷: **C09D 125/14**, 133/06, 175/04, 167/06, C08K 3/22
- (21) International Application Number:
PCT/GB2004/001227
- (22) International Filing Date: 22 March 2004 (22.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0307246.9 28 March 2003 (28.03.2003) GB
- (71) Applicant (for all designated States except MN, US): **AVECIA BV** [NL/NL]; Sluisweg 12, PO Box 123, NL-5140 AC Waalwijk (NL).
- (71) Applicant (for MN only): **AVECIA LIMITED** [GB/GB]; PO Box 42, Hexagon House, Blackley, Manchester M9 8ZS (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **TENNEBROEK, Ronald** [NL/NL]; Sluisweg 12, PO Box 123, NL-5140 AC Waalwijk (NL). **NABUURS, Tijs** [NL/NL]; Sluisweg 12, PO Box 123, NL-5140 AC Waalwijk (NL). **OVERBEEK, Gerardus, Cornelis** [NL/NL]; Sluisweg 12, PO Box 123, NL-5140 AC Waalwijk (NL). **BOUMAN, Jan** [NL/NL]; Sluisweg 12, PO Box 123, NL-5140 AC Waalwijk (NL).
- (74) Agents: **SCHMITT, Maja et al.**; Avecia Limited, Intellectual Property Group, PO Box 42, Hexagon House, Blackley, Manchester M9 8ZS (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: AQUEOUS PIGMENTED COATING COMPOSITION WITH IMPROVED OPEN TIME COMPRISING CROSSLINKABLE OLIGOMER(S) AND DISPERSED POLYMER(S)

(57) Abstract: An aqueous coating composition with an improved open time comprising (a) a crosslinkable water-dispersible oligomer(s); (b) a dispersed polymer(s), (c) a pigment(s) with an oil absorption number ≤ 25 g oil / 100g pigment and optionally (d) a Newtonian-like thickener(s) and (e) a thixotropic thickener(s) wherein the weight ratio of (a) : (b) is in the range of from 10:90 to 60:40; wherein (d) + (e) = 0.1 to 10 wt % and wherein said composition when drying to form a coating has a tack-free time of ≤ 24 hours.